

METHODS AND SYSTEMS TO COMPENSATE FOR A
STITCHING DISTURBANCE OF A PRINTED PATTERN IN A
MASKLESS LITHOGRAPHY SYSTEM UTILIZING OVERLAP OF
EXPOSURE ZONES WITH ATTENUATION OF THE AERIAL IMAGE IN
THE OVERLAP REGION

ABSTRACT

A method and system are provided for printing a pattern on a photosensitive surface using a spatial light modulator (SLM). An exemplary method includes defining two or more exposure areas on the photosensitive surface, the exposure areas overlapping along respective edge portions of the exposure areas to form an overlap zone therebetween. Two or more exposure areas are exposed to print an image therein, the exposing extending through the overlap zone. The exposing within the overlap zone is then attenuated.